

Claims

What is claimed is:

- Sub
A2*
1. A compression ignition engine, comprising:
an electronic controller, said electronic controller producing fuel delivery commands to control power output of said engine, said electronic controller including a cruise control mode;
an advanced cruise control system connected with said electronic controller and producing communication signals;
wherein said electronic controller receives said communication signals and calculates a fuel delivery command based, at least in part, on said communication signals at least when said electronic controller is in an advanced cruise control mode; and
wherein said electronic controller disengages said advance cruise control mode in response to receiving no valid control signal for greater than a first period of time.
 2. The compression ignition engine of claim 1, wherein said electronic controller disables said advance cruise control mode in response to receiving no valid control signals for greater than a second period of time.
 3. The compression ignition engine of claim 1, wherein said first period of time is less than about 500 milliseconds.
 4. The compression ignition engine of claim 2, wherein said second period of time is less than about 3500 milliseconds.

5. The compression ignition engine of claim 1, wherein said first period of time is about 500 milliseconds.

6. The compression ignition engine of claim 2, wherein said second period of time is about 3500 milliseconds.

Sub a3
7. The compression ignition engine of claim 1, wherein said electronic controller re-engages said advanced cruise control system in response to operator cruise control inputs.

8. The compression ignition engine of claim 7, wherein said operator cruise control inputs include on of a cruise control resume switch and a set switches.

9. The compression ignition engine of claim 2, wherein said electronic controller re-enables said advanced cruise control in response to operator re-initialization of the electronic controller.

10. The compression ignition engine of claim 9, wherein said operator re-initialization includes turning off the engine and turning it back on.

Sub a4
11. A method of controlling a compression ignition engine equipped with an electronic controller and an advanced cruise control system, said method comprising:
receiving communication signals from said advanced cruise control system; and
disengaging said advanced cruise control system as a function of not receiving valid control signals for a first time period.

G^4

13. The method of claim 11, further comprising:
re-engaging said advanced cruise control after said step of
in response to operator cruise control inputs.

14. The method of claim 12, further comprising:
re-enabling said advanced cruise control in response to said
shutting off the engine and turning it back on.

15. The method of claim 13, wherein said operator cruise include an cruise control resume switch.

16. The method of claim 11, further comprising:
engaging cruise control, after said step of disabling, in response to
the control inputs.